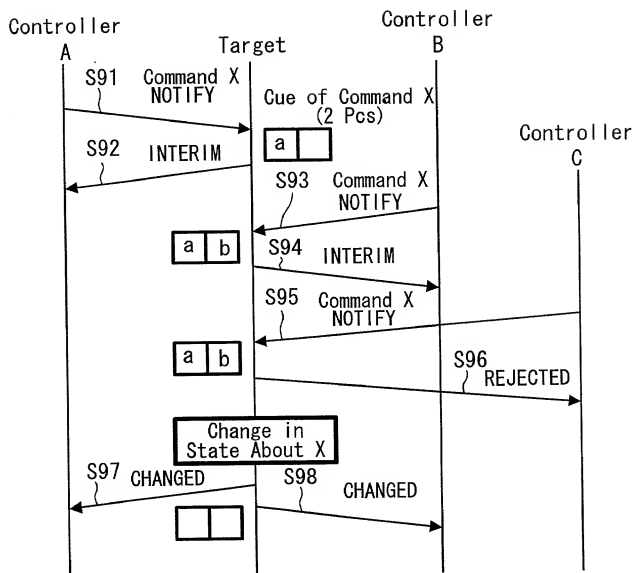
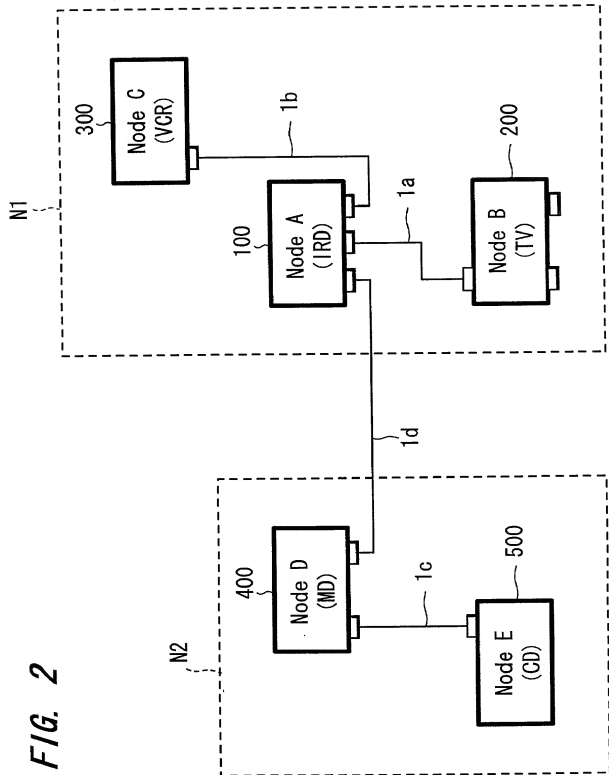


**FIG. 1**



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FIG. 2



**FIG. 3**

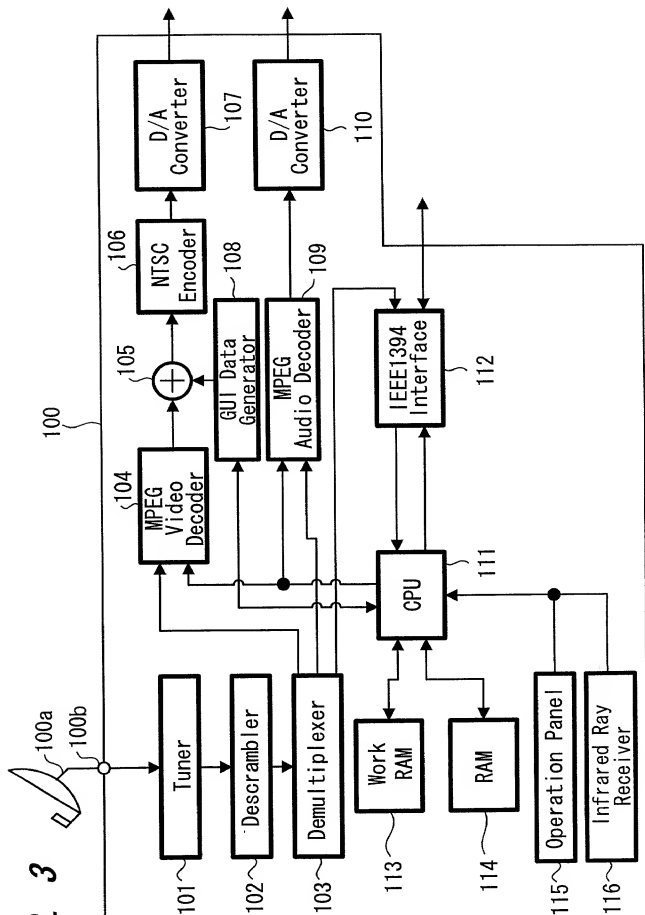


FIG. 4

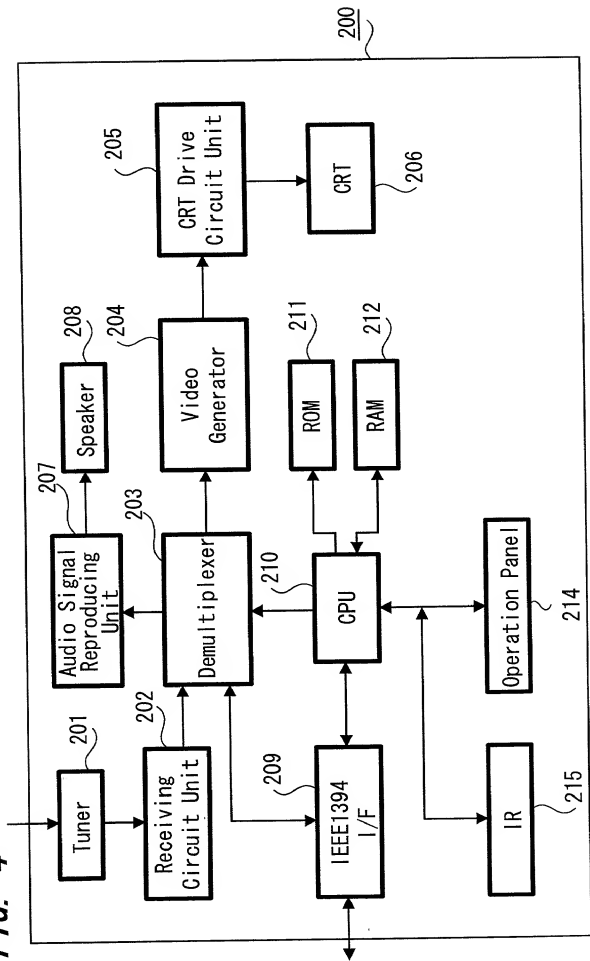


FIG. 5

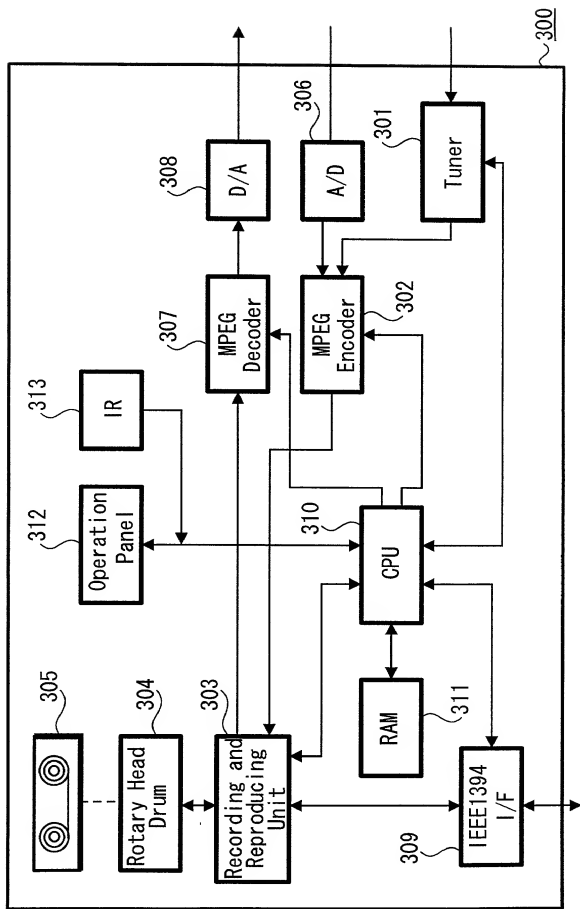


FIG. 6

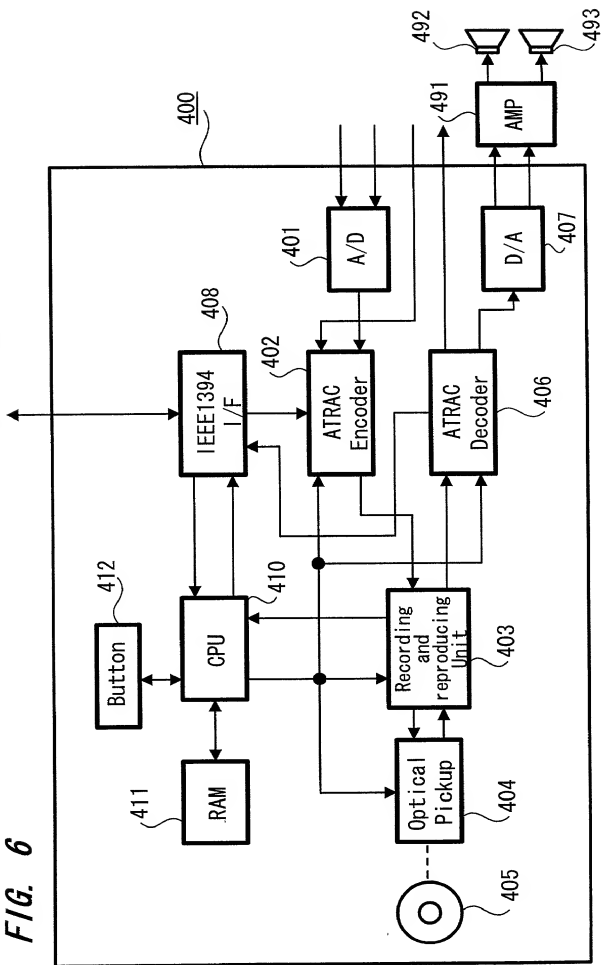


FIG. 7

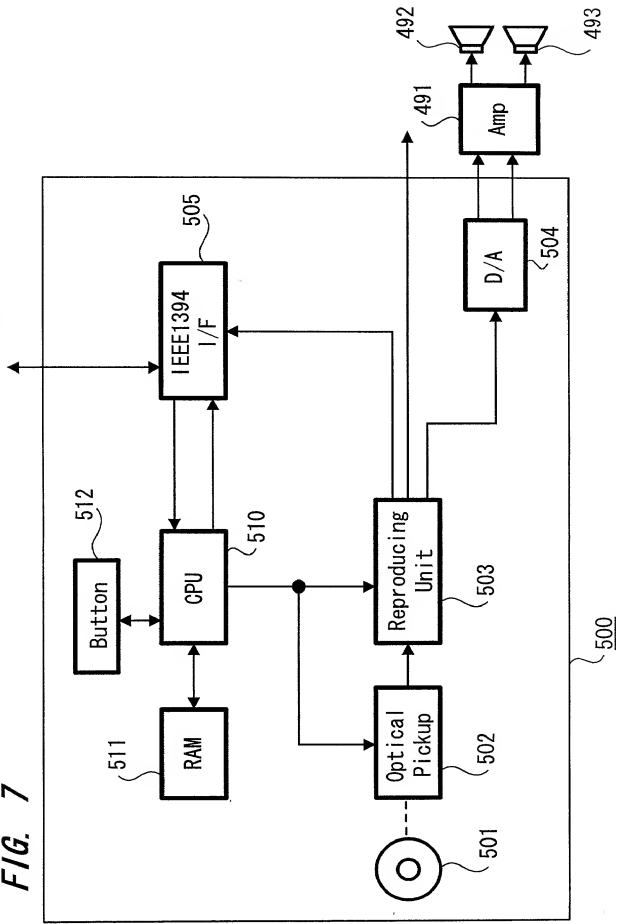


FIG. 8

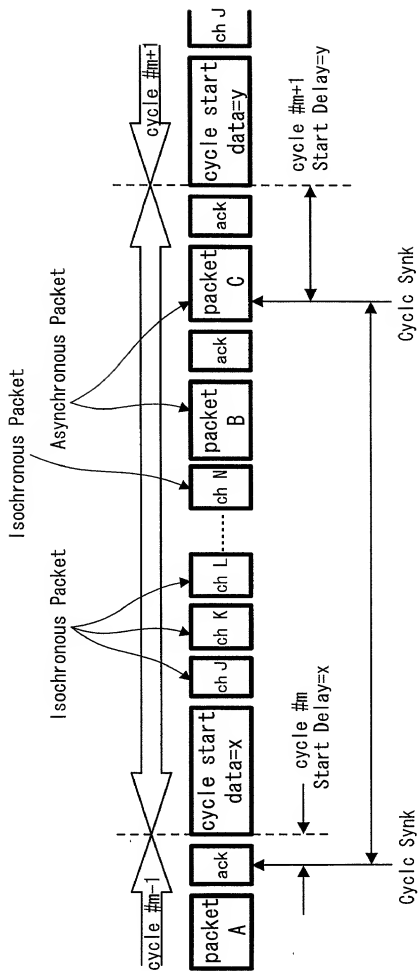




FIG. 9

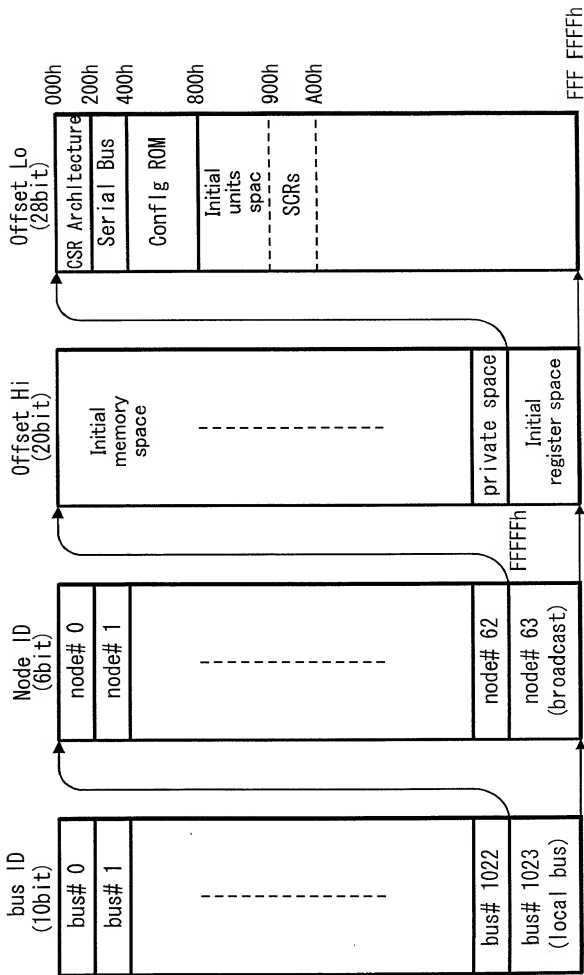
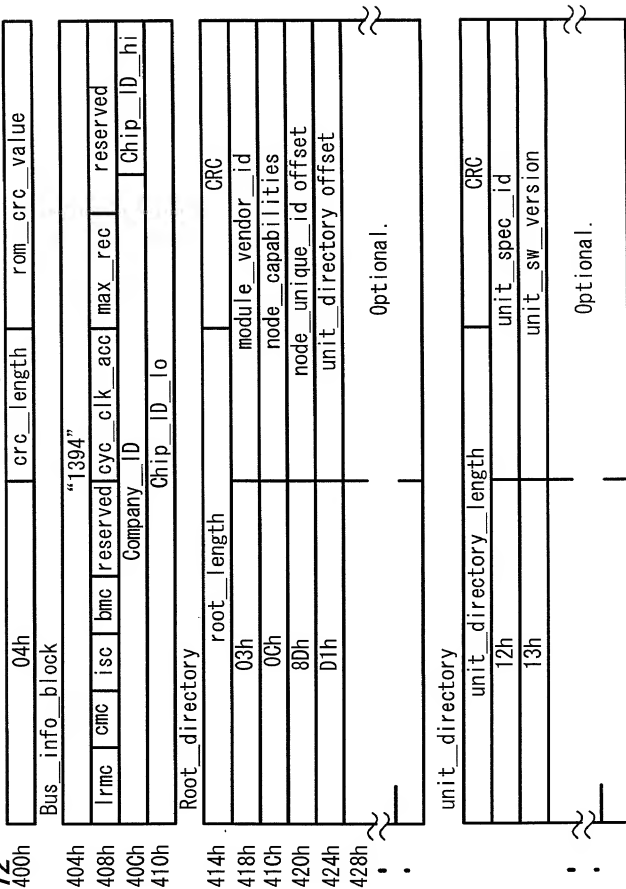


FIG. 10

Offset	Designation	Function
000h	STATE_CLEAR	State and control information
004h	STATE_SET	Setting of state_clear bit
008h	NODE_IDS	Indicates node ID of 16 bits
00Ch	RESET_START	Starts command reset
018h-01Ch	SPLIT_TIMEOUT	Specifies maximum time of split
200h	CYCLE_TIME	Cycle time
210h	BUSY_TIMEOUT	Specifies limit of retry
21Ch	BUS_MANAGER	Indicate ID of bus manager
220h	BANDWIDTH_AVAILABLE	Indicates band to be assigned in isochronous communication
224h-228h	CHANNELS_AVAILABLE	Indicates state of each channel

FIG. 12



**FIG. 11**

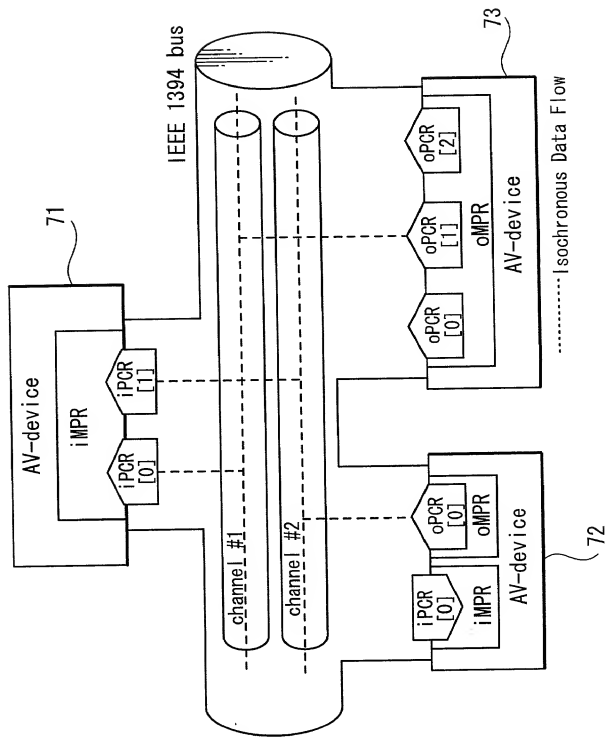
Info__length	info__length	crc__length	rom_crc__value
	bus__info_block		
	root_directory		
	unit_directories		
	root & unit leaves		

**FIG. 13**

900h	Output Master Plug Register
904h	Output Plug Control Register #0
...	Output Plug Control Register #1
...	...
97Ch	Output Plug Control Register #30
980h	Input Master Plug Register
984h	Input Plug Control Register #0
988h	Input Plug Control Register #1
...	...
...	...
9FCh	Input Plug Control Register #30



FIG. 15





**FIG. 17**

The General Subunit Identifier Descriptor	
address	contents
00 00 <sub>16</sub>	descriptor_length
00 01 <sub>16</sub>	
00 02 <sub>16</sub>	generation_ID
00 03 <sub>16</sub>	size_of_list_ID
00 04 <sub>16</sub>	size_of_object_ID
00 05 <sub>16</sub>	size_of_object_position
00 06 <sub>16</sub>	number_of_root_object_lists(n)
00 07 <sub>16</sub>	
00 08 <sub>16</sub>	root_object_list_ID_0
:	
:	:
:	root_object_list_ID_n-1
:	
:	subunit_dependent_length
:	
:	subunit_dependent_information
:	
:	manufacturer_dependent_length
:	
:	manufacturer_dependent_information
:	
:	
:	

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**FIG. 18**

generation__ID values	
generation__ID	meaning
00 <sub>16</sub>	Data structures and command sets as specified in the AV/C General Specification, version 3.0
all others	reserved for future specification

**FIG. 19**

List ID Value Assignment Ranges	
range of values	list definition
0000 <sub>16</sub> –0FFF <sub>16</sub>	reserved
1000 <sub>16</sub> –3FFF <sub>16</sub>	subunit-type dependent
4000 <sub>16</sub> –FFFF <sub>16</sub>	reserved
1 000 <sub>16</sub> –max list ID value	subunit-type dependent

FIG. 20

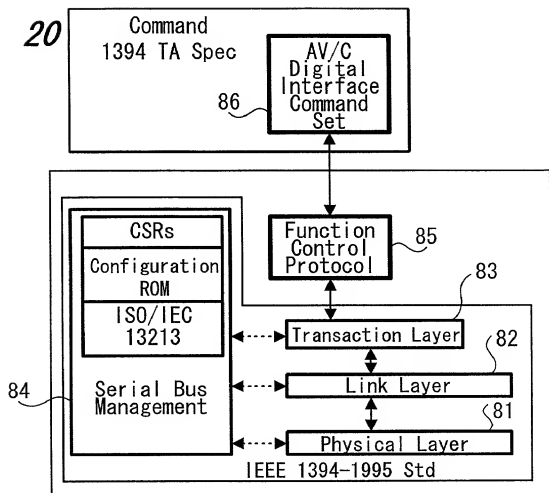


FIG. 21

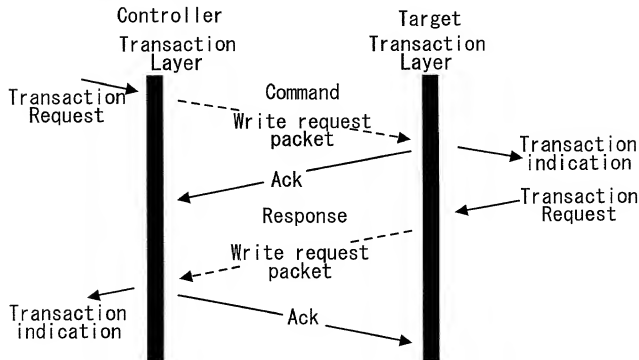


FIG. 22

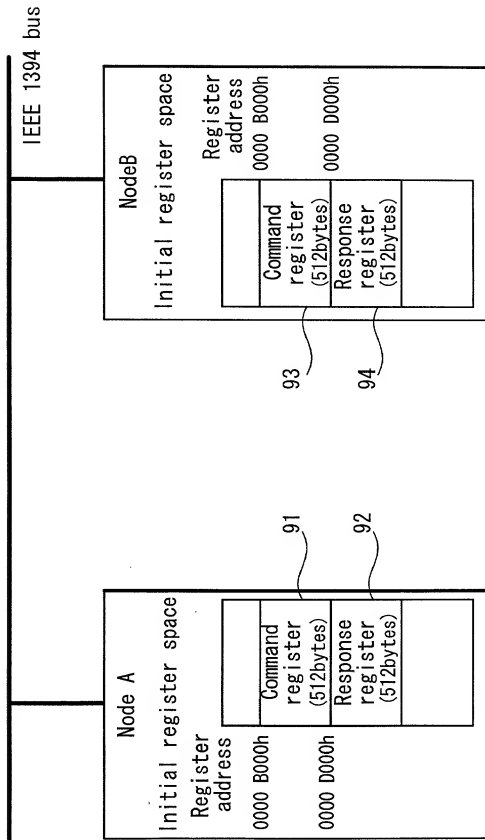
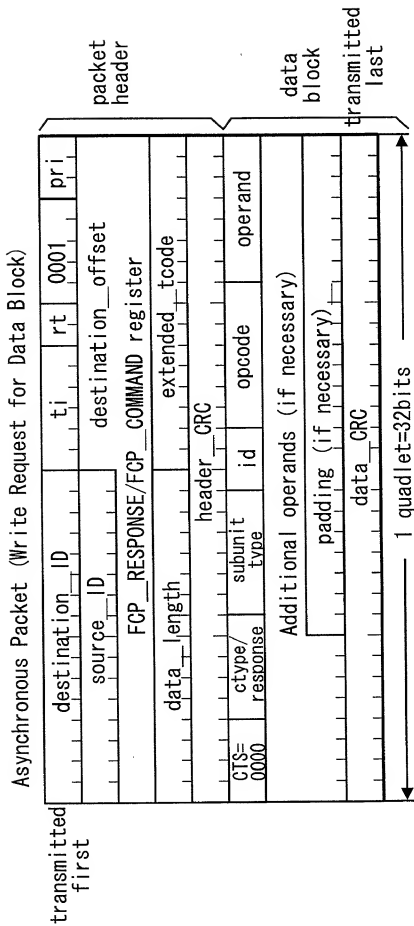


FIG. 23



Command	ctype/response	subunit_type		opcode: Operation
		00000 ?	Video monitor (reserved)	00h VENDOR-DEPENDENT 50h SEARCH MODE 51h TIMECODE 52h ATN
Response	0100	00000	Disc recorder/Player	60h OPEN MIC 61h READ MIC 62h WRITE MIC
	0101 (reserved for future specification)	00100	Tape recorder/Player	C1h LOAD MEDIUM C2h RECORD C3h PLAY C4h WIND ?
	0111	00101 ?	Tuner	
	1000 NOT IMPLEMENTED 1001 ACCEPTED 1010 REJECTED 1011 IN TRANSITION 1100 IMPLEMENTED/STABLE 1101 CHANGED 1110 (reserved for future specification)	11100 11101 11110	Video Camera (reserved) Vendor unique (reserved) Subunit type extended to next byte	
	1111 INTERIM	11111	Unit*	

FIG. 24C

FIG. 24B

FIG. 24A

in the

AV/C	control	tape recorder /player	case of ID0	PLAY	FORWARD
CTS=0000	ctype=0000	subunit type=00100	id=000	opcode=C3h	operand=75h

FIG. 25A

in the

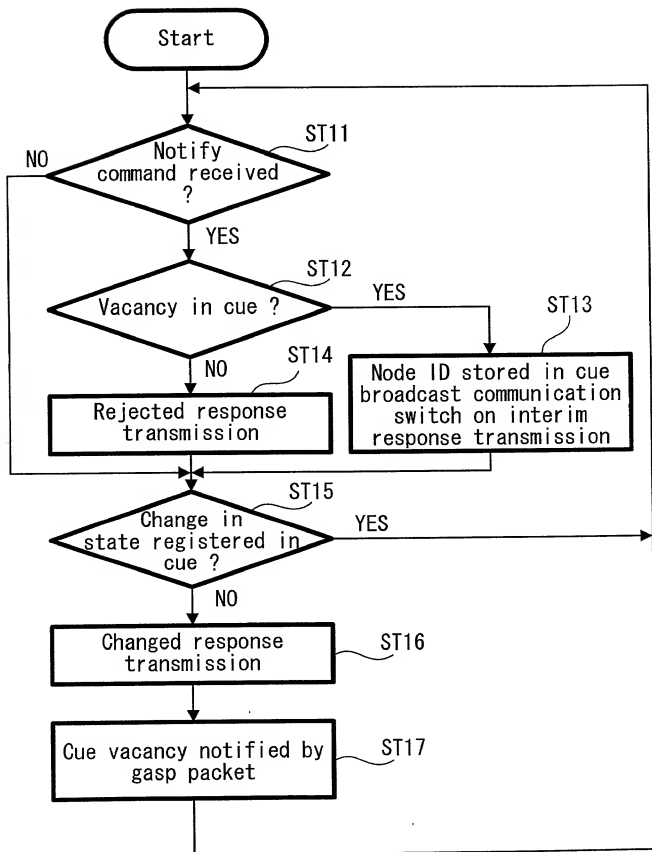
AV/C	accepted	tape recorder /player	case of ID0	PLAY	FORWARD
CTS=0000	response=1001	subunit type=00100	id=000	opcode=C3h	operand=75h

FIG. 25B

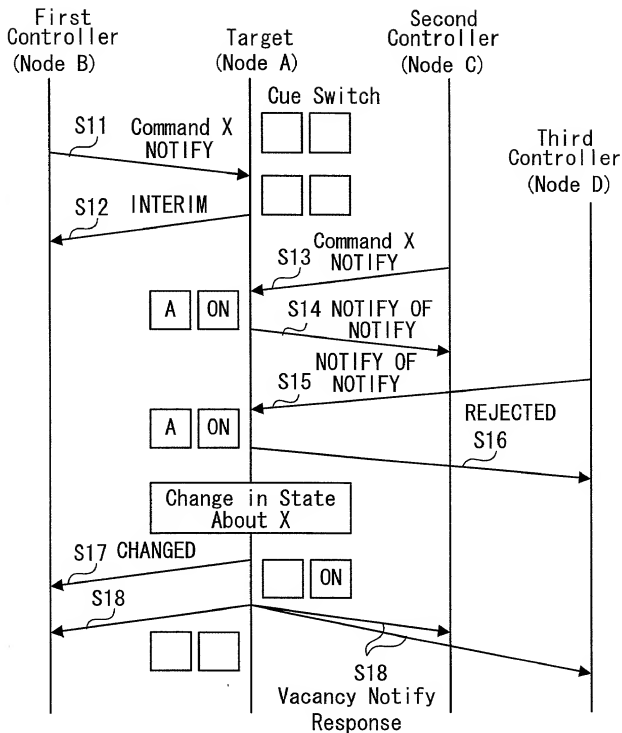
FIG. 26

data__length		tag (01)	channel	tcode (A)	sy
source__CRC					
source__ID		specifier__ID_hi (1394TA)			
__lo		Version (FCP)			
cts (AV/C)	respons CHANGED	unit/subunit	opcode	operand	
more operands (if necessary)					
Zero pad bytes (if necessary)					
data__CRC					

FIG. 27



**FIG. 28**



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**FIG. 29**

ctype/response

Command	0000	CONTROL
	0001	STATUS
	0010	SPECIFIC INQUIRY
	0011	NOTIFY
	0100	GENERIC INQUIRY
	0101	NOTIFY OF NOTIFY
	0111	(RESERVED)
Response	1000	NOT IMPLEMENTED
	1001	ACCEPTED
	1010	REJECTED
	1011	IN TRANSIT
	1100	IMPLEMENTED/STABLE
	1101	CHANGED
	1110	(RESERVED)
	1111	INTERIM

FIG. 30

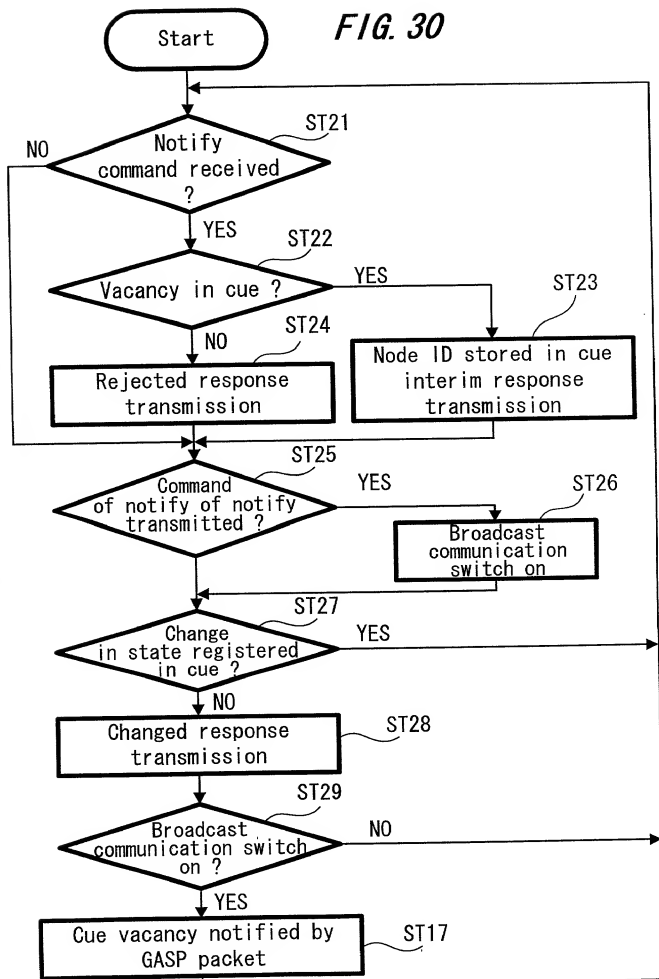


FIG. 31

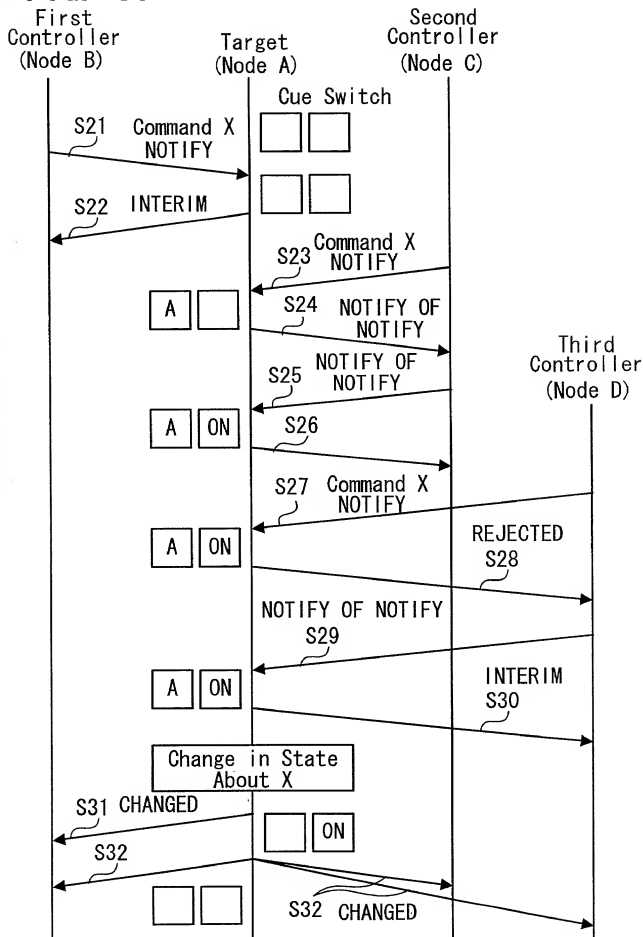
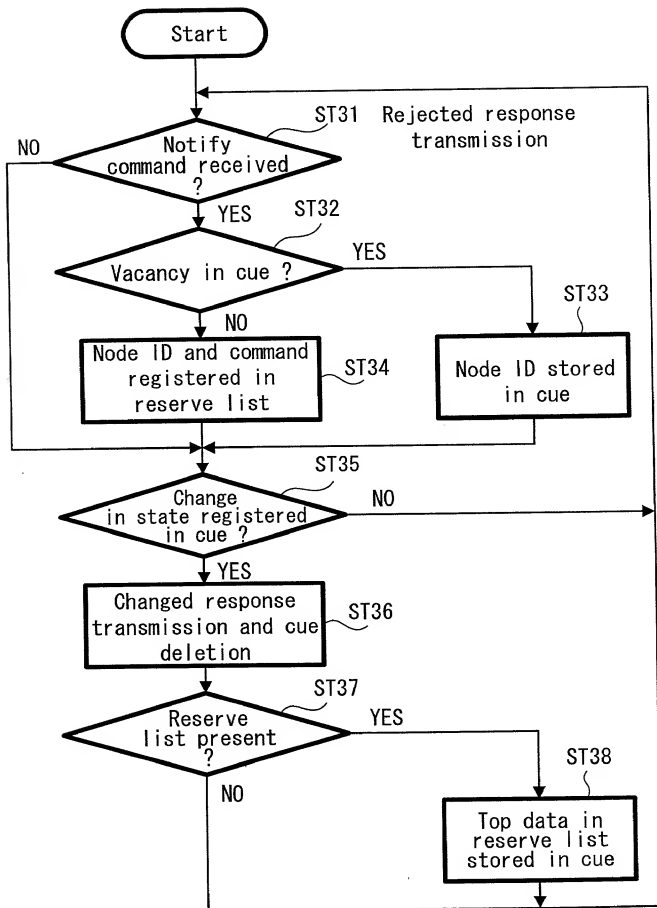


FIG. 32

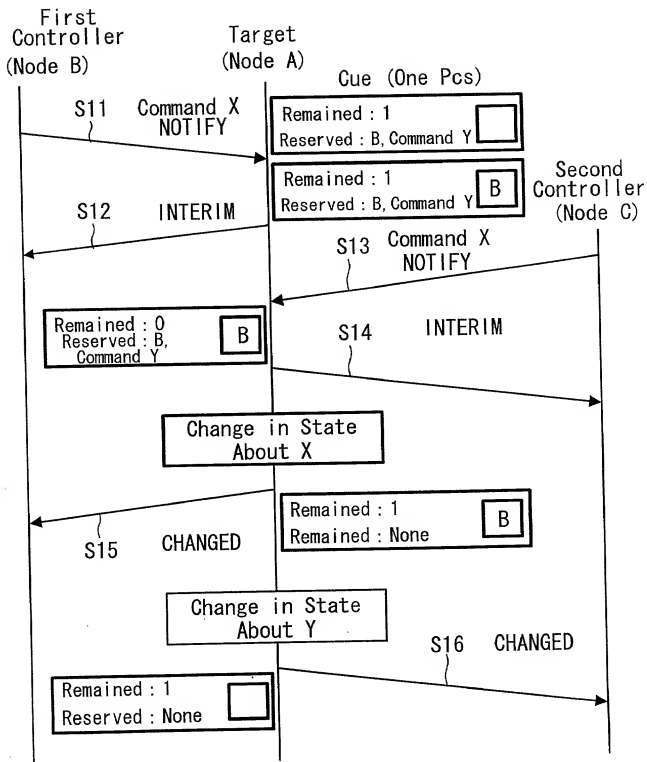


*FIG. 33*

Node ID	COMMAND
Node C	COMMAND Y
Node D	COMMAND Z
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FIG. 34



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